

Appln No. 09/866,546
Amdt date February 2, 2006
Reply to Office action of November 2, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for controlling and managing wireless network access for a wireless RF communication device, comprising the steps of:

sequentially scanning, at a wireless RF communication device, for polling messages from a plurality of network masters of a plurality of time-synchronous RF networks to determine whether communications may be established with one of the networks;

receiving the polling messages at the wireless RF communication device;

selecting, in accordance with a predefined criteria, ~~one of the networks~~ a network associated with one of the received polling messages; and

establishing communications between the wireless communication device and the selected network.

2. (Currently Amended) A multi-mode controller for controlling and managing network access for a wireless RF communication device, comprising:

a network detector for sequentially scanning for polling messages from a plurality of network masters of a plurality of time-synchronous RF networks to determine whether communications may be established with one of the networks and for receiving the polling messages;

a network selector, coupled to the network detector, for selecting, in accordance with a predefined criteria, ~~one of the networks~~ a network associated with one of the received polling messages; and

a connection manager for establishing communications between the wireless communication device and the selected network.

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3. - 9. (Canceled).

10. (Currently Amended) The method of claim 1 ~~comprising scanning~~ wherein the wireless communication device is configured to scan a first network during a first scanning window and ~~scanning~~ scan a second network during a second scanning window.

11. (Previously Presented) The method of claim 10 wherein the first scanning window comprises a first predefined time period and the second scanning window comprises a second predefined time period.

12. (Previously Presented) The method of claim 11 wherein the first predefined time period is equal to the second predefined time period.

13. (Previously Presented) The method of claim 10 comprising performing multiple scans during the first scanning window and performing multiple scans during the second scanning window.

14. (Previously Presented) The method of claim 13 wherein each of the multiple scans during each scanning window is performed for a predefined time period.

15. (Canceled).

16. (Previously Presented) The multi-mode controller of claim 2 wherein the network detector is configured to scan a first network during a first scanning window and scan a second network during a second scanning window.

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17. (Previously Presented) The multi-mode controller of claim 16 wherein the first scanning window comprises a first predefined time period and the second scanning window comprises a second predefined time period.

18. (Previously Presented) The multi-mode controller of claim 17 wherein the first predefined time period is equal to the second predefined time period.

19. (Previously Presented) The multi-mode controller of claim 16 wherein the network detector is configured to perform multiple scans during the first scanning window and perform multiple scans during the second scanning window.

20. (Previously Presented) The multi-mode controller of claim 19 wherein each of the multiple scans during each scanning window is performed for a predefined time period.

21. (Previously Presented) The method of claim 1 wherein the predefined criteria comprises a user preference.

22. (Previously Presented) The method of claim 1 wherein the predefined criteria comprises relative bandwidth.

23. (Previously Presented) The method of claim 1 wherein the predefined criteria comprises relative quality of service.

24. (Previously Presented) The method of claim 1 wherein the predefined criteria comprises relative content.

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25. (Currently Amended) The method of claim 1 ~~comprising using~~ wherein the wireless communication device is configured to use a common portion of an RF radio front end to communication with the networks.

26. (Canceled).

27. (New) The method of claim 1 wherein sequentially scanning comprises sequentially using different radio interfaces.

28. (New) The method of claim 1 wherein sequentially scanning comprises sequentially using communication protocols for different RF networks.

29. (New) The method of claim 1 wherein sequentially scanning comprises sequentially using different frequency hopping and modulation rate parameters.

30. (New) The method of claim 1 wherein sequentially scanning comprises sequentially using different baseband processors.

31. (New) The method of claim 30 wherein the different baseband processors use a common RF radio front end to communication with different RF networks.

32. (New) The method of claim 1 wherein sequentially scanning comprises sequentially scanning for an inquiry sequence and a beacon from an RF network.